

QUARTERLY MONITORING REPORT

Third Quarter 2013
Quarterly Monitoring Report
Baldwin Hardware Corporation
Reading, Pennsylvania

14 October 2013

WO# 193807

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The Baldwin Hardware Corporation business, formerly owned by Stanley Black and Decker, was sold to Spectrum Brands in December, 2012. Ownership of the property at 841 E. Wyomissing Blvd., Reading, PA, formerly known as the Baldwin Hardware Corporation manufacturing site, remains with Stanley Black and Decker. Stanley Black and Decker continues to operate the groundwater remediation system at the site. References in this report to Baldwin Hardware Corporation should be interpreted within the context of the transaction described above.

This Third Quarter 2013 Monitoring Report has been prepared for Baldwin Hardware Corporation (Baldwin), Reading, Pennsylvania by Environmental Resources Management, Inc. (ERM). Quarterly monitoring and reporting is conducted at the Baldwin plant in accordance with the Administrative Order on Consent (Consent Order) executed between Baldwin and the U.S. Environmental Protection Agency (EPA) Region III. This report includes the following: results of the well sampling and analyses; water level elevations for the wells and piezometers; the treatment system influent and effluent analyses for trichloroethene (TCE) concentrations; a quality control (QC) report; and a quarterly progress report.

1.1

Background

The Baldwin site is located approximately one-half mile southwest of the Schuylkill River in Reading, Pennsylvania. Custom brass hardware is manufactured at the plant. Pursuant to the Consent Order, Baldwin installed a ground water recovery, monitoring, and treatment system for remediation of volatile organic compounds (VOCs) in ground water. It was determined that TCE was released to the environment from former drying beds. The quarterly ground water monitoring system consists of the following elements:

- Three pumping wells (PW-5, PW-4, and PS-1);
- Two back-up pumping wells (PS-2 and PS-3);
- Four monitoring wells (OW-1, OW-2, OW-3S, OW-3D); and
- Ten piezometers (P-1, P-2, P-3S, P-3I, P-3D, P-4S, P-4I, P-4D, P-5S, and P-5D).

The locations of the wells are shown on Figure 1. Figure 1 also shows nearby wells (MW-3, 4, 6, 7) owned by Interstate Container Corporation which have been used in the past to provide supplementary water level data.

The recovery wells pump constantly at a rate of about 300 gallons per minute. The recovery system was activated in April 1988 and has functioned constantly since that time. The recovered ground water is treated by an air stripping tower and then used for plant processes. Any excess treated water is discharged with other plant NPDES wastewater streams in accordance with the Baldwin Pennsylvania Department of Environmental Protection (PADEP) -approved discharge permit.

In addition to ground water monitoring, the treatment system is also monitored on a monthly basis for TCE. The treatment system monitoring is performed at the following points:

- Tower influent to the treatment system;
- Tower effluent from the treatment system;
- Well PW-5 effluent, prior to treatment;
- Well PW-4 effluent, prior to treatment;
- Well PS-1 effluent, prior to treatment; and
- Well PS-2 effluent, prior to treatment.

Details of the recovery, monitoring, and treatment system are provided in the *Purge and Treatment System Certification Report*, 2 September 1988, prepared by Keck Consulting Services, Inc.

Water level measuring, well sampling, and analysis were performed by M. J. Reider Associates, Reading, Pennsylvania on 20 August 2013. The pump in PS-1 is damaged and not functioning; therefore no samples were collected from this location. Baldwin Hardware is currently assessing the feasibility of repairing the pump. In the interim, back-up pumping well PS-2, which is relatively close to PS-1 has been operated consistently for several years and continues to operate properly. The total flow rate to the treatment system has remained constant at 300 gpm.

Sample collection, handling, analysis, and QC sampling were performed in accordance with the protocols outlined in the Consent Order documents. In brief, the ground water samples collected from the two pumping wells, two back-up pumping wells and four monitoring wells were analyzed for VOCs by EPA Method 8260, selected total and dissolved metals, and general water quality parameters. Additionally, the

treatment system samples were analyzed monthly for select VOCs (including TCE) by Baldwin's internal laboratory using EPA Method 624.

2.0 MONITORING RESULTS

2.1 Ground Water Monitoring Data

The results of the Third Quarter 2013 well sampling and analysis for VOCs are summarized in Table 1. The inorganic analyses are summarized in Table 2. The complete laboratory report is provided in Appendix A. The results are also reported on the Pennsylvania Department of Environmental Protection (PADEP) *Form 19 Quarterly and Annual Water Quality Analyses* provided in Appendix B.

The VOC results for the Third Quarter sampling are generally consistent with past quarterly sampling results. TCE has continued to decrease in well PS-2 from 643 micrograms per liter ($\mu\text{g/l}$) in Fourth Quarter 2002 to 1.3 $\mu\text{g/l}$ detected in Second Quarter 2013. Similar trends have been observed for the following wells:

- PS-1 - The highest reported TCE concentration was 731 $\mu\text{g/l}$ measured in 1993. Although this well was not sampled during the second quarter of 2013, TCE levels at this well have been below 20 $\mu\text{g/l}$ since 2005;
- PW-4 - The highest reported TCE concentration was 1395 $\mu\text{g/l}$ measured in 2003. TCE concentrations have been below 80 $\mu\text{g/l}$ since 2009 and below 50 μg for the last two years; and
- OW-2 - The highest reported TCE concentration was 1200 $\mu\text{g/l}$ measured in 2002. The TCE concentrations have been below 20 $\mu\text{g/l}$ since 2006.

Federal Secondary Drinking Water Standards were exceeded in two of the monitoring wells for total iron and manganese (OW-3S and PS-3). The Federal Primary Drinking Water Standard was exceeded in one well (OW-3S) for total chromium and nickel. Total analysis are likely biased high due to the presence of suspended sediments in the sample, and are not indicative of metals that can migrate through the ground water system.

One ground water sample exceeded the Federal Secondary Drinking Water Standard for dissolved manganese (PS-3). Dissolved concentrations are more indicative than total concentrations of metals that can migrate through the ground water system.

The water level data are provided in Table 3; ground water potentiometric contours for the Third Quarter event are shown on Figure 1. Water levels were measured in most of the wells prior to evacuation and sampling. Water levels were not measured at PS-1, PS-2, PS-3, P-3S, P-3I, P-3D and P-4D. The Third Quarter 2013 water levels are consistent with prior water levels, indicating that the direction of ground water flow under pumping conditions remains consistent.

2.2 *Treatment System Monitoring*

The results of the monthly treatment system monitoring for TCE are provided in Table 4. The August sample collection did not occur at its usual time, therefore, two samples were collected during September. As shown, the reported tower influent TCE concentrations ranged between 32 and 68 µg/l. Effluent concentrations were non-detect at a detection limit of 5 µg/l, indicating that the treatment system is functioning properly. The target effluent concentration for TCE is less than 100 µg/l.

2.3 *QC Report*

The results of the QC sampling for VOCs, metals and general water quality parameters are provided in Appendix A. None of the VOCs detected in the well samples were detected in the trip blank, field blank or bailer rinsate blank samples. No VOCs were detected in the method blank. The matrix spike sample recoveries, the standard sample results, and the laboratory field duplicate results were all generally within acceptable levels. The data is accurate, precise, and complete in accordance with the level of QC required by the Consent Order.

3.0 *PROGRESS REPORT*

Compliance activities performed for the Third Quarter 2013 period include well and treatment system sampling and analysis, the collection of water level measurements in the wells and piezometers, as described above, and reporting. With the timely submission of this report, all compliance activities and deadlines will have been met. The recovery and treatment system at the Baldwin site continues to operate as designed and as approved by U.S. EPA.

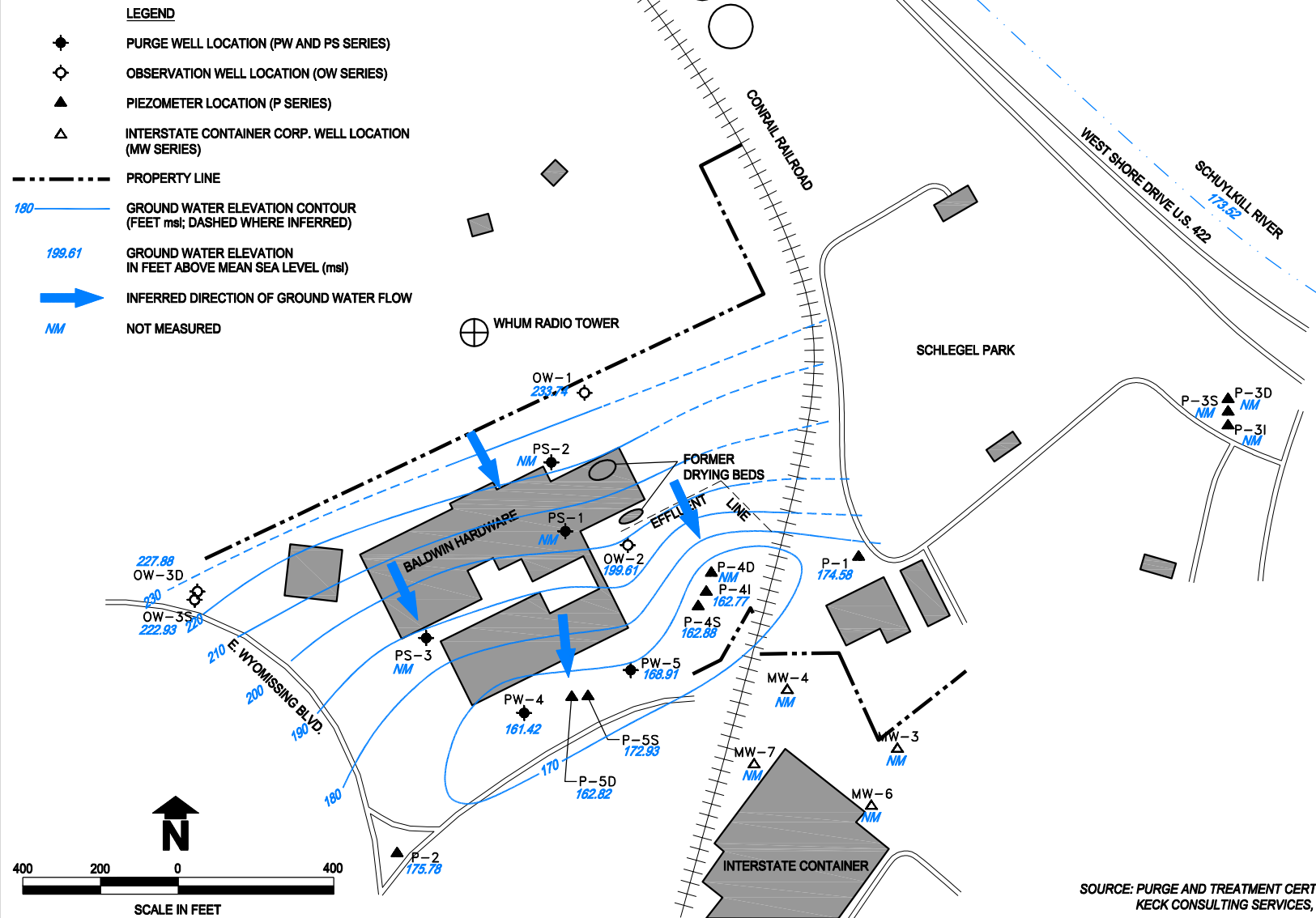
Figures

FIGURE 1

GROUND WATER ELEVATION CONTOUR MAP

20 AUGUST 2013

BALDWIN HARDWARE CORPORATION READING, PENNSYLVANIA



SOURCE: PURGE AND TREATMENT CERTIFICATION REPORT,
KECK CONSULTING SERVICES, 1988

Tables

Table 1
Organic Ground Water Quality Data for 3rd Quarter 2013 Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Detected Volatile Organic Compounds (µg/l)	WELLS									
	OW-1	OW-2	OW-3S	OW-3D	PS-1	PS-2	PS-3	PW-4	PW-5	OW-2 Duplicate
Trichloroethene	ND	4.4	ND	ND	NS	0.6	0.8	1.2	45	4.4
Cis-1,2-Dichloroethylene	ND	3.6	ND	ND	NS	ND	ND	1.3	7.4	3.7
Tetrachloroethylene	ND	ND	ND	ND	NS	ND	ND	0.6	1.8	ND
1,1-Dichloroethane	ND	ND	ND	ND	NS	ND	ND	0.6	ND	ND
Ethylbenzene	ND	ND	ND	ND	NS	ND	1.1	ND	ND	ND
Toluene	ND	ND	ND	ND	NS	ND	0.5	ND	ND	ND
Benzene	ND	ND	ND	39.4	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	1.7	NS	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	NS	1.6	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	NS	ND	ND	2.2	1.2	ND

Detected Volatile Organic Compounds (µg/l)	Trip Blank 8/20/2013	Field Blank 8/20/2013	Bailer Rinsate 8/20/2013
	ND	ND	ND

ND - Not detected at or above laboratory reporting limits of 0.5 to 10 µg/l.

NS- Not Sampled during the this event.

µg/l - Micrograms per liter.

Table 2
Inorganic Ground Water Quality Data for 3rd Quarter 2013 Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

		WELLS									
Chemistry (mg/l)	Standards	OW-1	OW-2	OW-3S	OW-3D	PS-1	PS-2	PS-3	PW-4	PW-5	OW-2 Duplicate
Specific Conductance (µmhos)	---	464	708	875	501	NS	722	376	969	822	708
pH (standard units)	6.5-8.5 S	7.4	7.4	6.5	7.4	NS	7.1	8.0	6.6	7.6	7.4
Sulfate	250 S	19	73	40	31	NS	60	62	66	44	72
Total Organic Carbon	---	<.5	0.8	0.6	0.6	NS	0.8	1	0.7	<.5	0.5
Chloride	250 S	4	37	90	7	NS	34	<1	94	66	37
Cyanide, Total	0.2 *	<.004	<.004	<.004	<.004	NS	<0.004	<.004	<.004	<.004	<.004
Phenols	---	<.01	<.01	<.01	<.01	NS	<.01	<.01	<.01	<.01	<.01
Total Metals (mg/l)											
Barium	2.0 P	0.045	0.048	0.186	0.113	NS	0.055	0.060	0.108	0.124	0.047
Cadmium	0.005 P	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Chromium	0.1 P	0.0020	0.0023	1.95	0.0037	NS	0.0056	0.0013	0.0053	0.0023	0.0024
Copper	1.0 S	<.001	<.001	0.034	<.001	NS	0.004	0.012	0.002	<.001	<.001
Iron	0.3 S	0.04	0.02	9.47	0.13	NS	<.02	0.58	<.02	<.02	0.03
Lead	0.015 P	<.001	<.001	<.001	<.001	NS	0.001	0.003	<.001	<.001	<.001
Manganese	0.05 S	<.001	<.001	0.231	0.005	NS	0.002	0.192	<.001	0.003	0.001
Nickel	0.1 P	0.0031	0.0050	0.166	0.0029	NS	0.0054	0.0030	0.0051	0.0054	0.0051
Silver	0.1 S	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Sodium	---	1.0	27.1	37.3	1.3	NS	10.9	0.9	43.5	30.3	26.8
Zinc	5.0 S	0.011	0.212	0.005	<.005	NS	0.013	0.201	0.008	0.013	0.222
Dissolved Metals (mg/l)											
Barium	2.0 P	0.049	0.048	0.154	0.120	NS	0.054	0.058	0.110	0.120	0.044
Cadmium	0.005 P	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Chromium	0.1 P	0.0020	0.0021	0.0032	0.0015	NS	0.0058	0.0015	0.0054	0.0027	0.0023
Copper	1.0 S	0.001	<.001	<.001	<.001	NS	0.003	0.014	0.002	0.001	<.001
Iron	0.3 S	<.02	<.02	<.02	0.12	NS	<.02	0.08	<.02	<.02	<.02
Lead	0.015 P	<.001	<.001	<.001	<.001	NS	<.001	<.001	<.001	<.001	<.001
Manganese	0.05 S	<.001	<.001	0.005	0.005	NS	<.001	0.185	<.001	<.001	<.001
Nickel	0.1 P	0.0029	0.0048	0.0651	0.0034	NS	0.0042	0.0028	0.0054	0.0056	0.0051
Silver	0.1 S	<.0005	<.0005	<.0005	<.0005	NS	<.0005	<.0005	<.0005	<.0005	<.0005
Zinc	5.0 S	0.022	0.205	<.005	<.005	NS	0.008	0.090	0.009	0.012	0.214

< - Not detected at or above indicated laboratory reporting limit.

NS - Not sampled during this quarterly event.

* No standard exists for total cyanide, value is for free cyanide.

mg/l - Milligrams per liter.

--- - No standard, S - Secondary Drinking Water Standard, P - Primary Drinking Water Standard

Shaded values exceed either the Primary or Secondary Federal Drinking Water Standard.

Table 3
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		4/3/1997	4/3/1997	7/28-29/97	7/28-29/97	10/27-28/97	10/27-28/97
OW-1	292.60	58.33	234.27	66.02	226.58	69.58	223.02
OW-2	251.92	48.77	203.15	57.33	194.59	56.77	195.15
OW-3S	269.37	43.60	225.77	46.47	222.90	47.34	222.03
OW-3D	269.37	40.97	228.40	43.69	225.68	46.91	222.46
PS-1	257.71	75.38	182.33	136.80	120.91	144.60	113.11
PS-2	260.11	78.79	181.32	68.30	191.81	89.00	171.11
PS-3	249.51	130.05	119.46	82.40	167.11	58.00	191.51
PW-4	234.97	73.91	161.06	85.75	149.22	90.20	144.77
PW-5	224.11	54.57	169.54	66.50	157.61	72.97	151.14
P-1	206.90	29.63	177.27	33.23	173.67	36.18	170.72
P-2	232.92	52.47	180.45	57.22	175.70	57.00	175.92
P-3S	191.84	12.10	179.74	13.17	178.67	13.64	178.20
P-3I	191.87	14.10	177.77	15.10	176.77	15.30	176.57
P-3D	192.00	11.92	180.08	12.76	179.24	13.21	178.79
P-4S	239.15	66.62	172.53	79.62	159.53	79.90	159.25
P-4I	239.15	66.66	172.49	81.19	157.96	87.53	151.62
P-4D	239.15	58.79	180.36	67.22	171.93	70.97	168.18
P-5S	231.55	50.20	181.35	73.58	157.97	79.91	151.64
P-5D	232.23	61.75	170.48	74.04	158.19	80.25	151.98
RIVER	215.77	42.57	173.20	43.43	172.34	44.32	171.45

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		4/29-30/99	4/29-30/99	7/22-23/99	7/22-23/99	10/21-22/99	10/21-22/99
OW-1	292.60	59.78	232.82	69.38	223.22	70.03	222.57
OW-2	251.92	53.65	198.27	57.47	194.45	57.97	193.95
OW-3S	269.37	46.95	222.42	48.28	221.09	47.22	222.15
OW-3D	269.37	44.10	225.27	49.08	220.29	46.57	222.80
PS-1	257.71	173.70	84.01	210.60	47.11	208.90	48.81
PS-2	260.11	39.25	220.86	92.58	167.53	88.70	171.41
PS-3	249.51	32.32	217.19	33.80	215.71	47.48	202.03
PW-4	234.97	87.07	147.90	84.51	150.46	84.91	150.06
PW-5	224.11	65.46	158.65	66.65	157.46	68.02	156.09
P-1	206.90	32.71	174.19	34.79	172.11	33.14	173.76
P-2	232.92	57.53	175.39	60.07	172.85	59.10	173.82
P-3S	191.84	12.81	179.03	13.67	178.17	12.57	179.27
P-3I	191.87	15.47	176.40	15.68	176.19	15.20	176.67
P-3D	192.00	12.44	179.56	12.98	179.02	11.88	180.12
P-4S	239.15	79.79	159.36	80.02	159.13	79.90	159.25
P-4I	239.15	80.55	158.60	81.99	157.16	82.57	156.58
P-4D	239.15	64.64	174.51	67.69	171.46	66.92	172.23
P-5S	231.55	73.07	158.48	74.44	157.11	74.89	156.66
P-5D	232.23	73.70	158.53	75.11	157.12	75.22	157.01
RIVER	215.77	43.65	172.12	44.06	171.71	43.13	172.64

* Feet above mean sea level.
 NM - Not Measured.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

	Surveyed Top of Casing Elevation*	Depth to Water (feet) 7/18-19/01	Water Level Elevation* 7/18-19/01	Depth to Water (feet) 10/17-18/01	Water Level Elevation* 10/17-18/01	Depth to Water (feet) 1/15-16/02	Water Level Elevation* 1/15-16/02
Well							
OW-1	292.60	58.56	234.04	70.00	222.60	70.00	181.92
OW-2	251.92	57.44	194.48	58.00	193.92	55.55	196.37
OW-3S	269.37	46.53	222.84	47.90	221.47	48.58	220.79
OW-3D	269.37	44.14	225.23	47.60	221.77	46.80	222.57
PS-1	257.71	198.00	59.71	69.23	188.48	61.84	195.87
PS-2	260.11	138.15	121.96	94.51	165.60	55.15	204.96
PS-3	249.51	30.16	219.35	30.65	218.86	31.85	217.66
PW-4	234.97	74.95	160.02	79.10	155.87	82.50	152.47
PW-5	224.11	63.18	160.93	67.35	156.76	70.45	153.66
P-1	206.90	31.70	175.20	34.93	171.97	36.15	170.75
P-2	232.92	56.13	176.79	60.12	172.80	61.90	171.02
P-3S	191.84	12.90	178.94	13.94	177.90	NM	--
P-3I	191.87	15.56	176.31	16.00	175.87	NM	--
P-3D	192.00	12.46	179.54	13.15	178.85	NM	--
P-4S	239.15	76.31	162.84	79.55	159.60	80.02	159.13
P-4I	239.15	76.55	162.60	81.72	157.43	84.81	154.34
P-4D	239.15	64.57	174.58	66.97	172.18	67.55	171.60
P-5S	231.55	68.80	162.75	74.03	157.52	77.90	153.65
P-5D	232.23	69.72	162.51	74.90	157.33	76.80	155.43
RIVER	215.77	43.58	172.19	43.96	171.81	43.95	207.97

	Surveyed Top of Casing Elevation*	Depth to Water (feet) 7/15-16/03	Water Level Elevation* 7/15-16/03	Depth to Water (feet) 10/14-15/03	Water Level Elevation* 10/14-15/03	Depth to Water (feet) 1/13-14/04	Water Level Elevation* 1/13-14/04
Well							
OW-1	292.60	54.33	238.27	65.03	227.57	52.61	239.99
OW-2	251.92	55.43	196.49	51.11	200.81	52.65	199.27
OW-3S	269.37	45.50	223.87	46.00	223.37	45.93	223.44
OW-3D	269.37	39.70	229.67	41.03	228.34	39.37	230.00
PS-1	257.71	NM	---	NM	---	NM	---
PS-2	260.11	NM	---	NM	---	NM	---
PS-3	249.51	NM	---	NM	---	NM	---
PW-4	234.97	85.00	149.97	81.04	153.93	NM	---
PW-5	224.11	62.41	161.70	62.00	162.11	NM	---
P-1	206.90	30.25	176.65	31.01	175.89	29.92	176.98
P-2	232.92	53.76	179.16	55.31	177.61	53.10	179.82
P-3S	191.84	NM	---	NM	---	NM	---
P-3I	191.87	NM	---	NM	---	NM	---
P-3D	192.00	NM	---	NM	---	NM	---
P-4S	239.15	61.00	178.15	77.19	161.96	73.31	165.84
P-4I	239.15	74.79	164.36	77.11	162.04	73.31	165.84
P-4D	239.15	74.81	164.34	61.91	177.24	59.45	179.70
P-5S	231.55	NM	---	NM	---	65.85	165.70
P-5D	232.23	NM	---	NM	---	NM	---
RIVER	215.77	44.02	171.75	37.41	178.36	43.16	172.61

* Feet above mean sea level.
 NM - Not Measured.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		7/11-12/05		10/11-12/05		1/12-13/06	
OW-1	292.60	56.91	235.69	65.19	227.41	60.55	232.05
OW-2	251.92	50.64	201.28	53.11	198.81	55.95	195.97
OW-3S	269.37	46.51	222.86	46.90	222.47	46.58	222.79
OW-3D	269.37	42.00	227.37	43.39	225.98	42.46	226.91
PS-1	257.71	76.50	181.21	NM	---	NM	---
PS-2	260.11	50.71	209.40	36.85	223.26	NM	---
PS-3	249.51	20.72	228.79	29.57	219.94	NM	---
PW-4	234.97	82.75	152.22	96.35	138.62	91.69	143.28
PW-5	224.11	57.19	166.92	61.52	162.59	58.62	165.49
P-1	206.90	31.66	175.24	31.35	175.55	30.84	176.06
P-2	232.92	55.34	177.58	56.50	176.42	55.23	177.69
P-3S	191.84	12.16	179.68	11.39	180.45	11.50	180.34
P-3I	191.87	14.91	176.96	14.50	177.37	13.98	177.89
P-3D	192.00	12.44	179.56	11.61	180.39	11.20	180.80
P-4S	239.15	73.02	166.13	73.16	165.99	73.32	165.83
P-4I	239.15	73.00	166.15	73.16	165.99	73.25	165.90
P-4D	239.15	63.52	175.63	63.58	175.57	64.02	175.13
P-5S	231.55	65.51	166.04	65.29	166.26	65.64	165.91
P-5D	232.23	66.41	165.82	65.91	166.32	66.23	166.00
RIVER	215.77	42.82	172.95	42.25	173.52	42.20	173.57

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		9/18-19/07	9/18-19/07	12/10-11/07	12/10-11/07	1/28-29/08	1/28-29/08
OW-1	292.60	69.82	222.78	69.91	222.69	69.58	223.02
OW-2	251.92	57.95	193.97	58.31	193.61	65.85	186.07
OW-3S	269.37	47.52	221.85	47.91	221.46	47.11	222.26
OW-3D	269.37	48.51	220.86	49.77	219.60	46.95	222.42
PS-1	257.71	119.56	138.15	118.64	139.07	142.16	115.55
PS-2	260.11	94.50	165.61	96.13	163.98	101.75	158.36
PS-3	249.51	32.41	217.10	31.41	218.10	33.41	216.10
PW-4	234.97	95.45	139.52	92.23	142.74	94.11	140.86
PW-5	224.11	63.20	160.91	61.64	162.47	60.16	163.95
P-1	206.90	31.15	175.75	32.59	174.31	32.05	174.85
P-2	232.92	54.42	178.50	57.83	175.09	56.58	176.34
P-3S	191.84	12.15	179.69	11.79	180.05	12.12	179.72
P-3I	191.87	18.01	173.86	14.68	177.19	14.94	176.93
P-3D	192.00	13.62	178.38	11.49	180.51	12.39	179.61
P-4S	239.15	70.05	169.10	76.44	162.71	75.25	163.90
P-4I	239.15	70.16	168.99	76.44	162.71	75.33	163.82
P-4D	239.15	64.44	174.71	66.59	172.56	67.03	172.12
P-5S	231.55	61.33	170.22	68.93	162.62	67.59	163.96
P-5D	232.23	62.71	169.52	68.63	163.60	68.11	164.12
RIVER	215.77	43.13	172.64	43.79	171.98	42.85	172.92

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 3 (cont.)
Water Level Data for 1996 through 2012 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		8/17-18/2009	8/17-18/2009	11/16-30/2009	11/16-30/2009	3/1-5/2010	3/1-5/2010
OW-1	292.60	67.64	224.96	66.20	226.40	53.54	239.06
OW-2	251.92	55.75	196.17	55.22	196.70	51.01	200.91
OW-3S	269.37	47.03	222.34	46.90	222.47	46.04	223.33
OW-3D	269.37	46.00	223.37	46.29	223.08	42.30	227.07
PS-1	257.71	63.65	194.06	63.75	193.96	60.21	197.50
PS-2	260.11	NM	---	NM	---	NM	---
PS-3	249.51	29.86	219.65	29.94	219.57	20.64	228.87
PW-4	234.97	88.65	146.32	91.53	143.44	91.93	143.04
PW-5	224.11	61.95	162.16	61.74	162.37	54.65	169.46
P-1	206.90	32.13	174.77	31.48	175.42	22.31	184.59
P-2	232.92	56.93	175.99	56.31	176.61	47.98	184.94
P-3S	191.84	NM	---	NM	---	NM	---
P-3I	191.87	NM	---	NM	---	NM	---
P-3D	192.00	NM	---	NM	---	NM	---
P-4S	239.15	77.60	161.55	76.98	162.17	67.60	171.55
P-4I	239.15	77.62	161.53	77.03	162.12	68.43	170.72
P-4D	239.15	NM	---	NM	---	NM	---
P-5S	231.55	70.15	161.40	69.42	162.13	60.22	171.33
P-5D	232.23	71.00	161.23	70.33	161.90	61.53	170.70
RIVER	215.77	42.16	173.61	41.12	174.65	39.67	176.10

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*	Depth to Water (feet)	Water Level Elevation*
		9/16-17/2011	9/16-17/2011	11/30-12/1/2011	11/30-12/1/2011	2/13/2012	2/13/2012
OW-1	292.60	54.67	237.93	51.95	240.65	52.33	240.27
OW-2	251.92	51.50	200.42	51.89	200.03	53.09	198.83
OW-3S	269.37	45.62	223.75	45.64	223.73	45.95	223.42
OW-3D	269.37	41.19	228.18	42.43	226.94	43.68	225.69
PS-1	257.71	58.53	199.18	60.27	197.44	62.65	195.06
PS-2	260.11	NM	---	NM	---	NM	---
PS-3	249.51	22.14	227.37	24.58	224.93	26.88	222.63
PW-4	234.97	95.85	139.12	85.22	149.75	87.31	147.66
PW-5	224.11	48.55	175.56	51.55	172.56	56.92	167.19
P-1	206.90	24.80	182.10	28.05	178.85	29.56	177.34
P-2	232.92	50.14	182.78	51.45	181.47	53.04	179.88
P-3S	191.84	NM	---	NM	---	NM	---
P-3I	191.87	NM	---	NM	---	NM	---
P-3D	192.00	NM	---	NM	---	NM	---
P-4S	239.15	70.98	168.17	65.76	173.39	67.19	171.96
P-4I	239.15	70.12	169.03	65.73	173.42	67.14	172.01
P-4D	239.15	NM	---	NM	---	NM	---
P-5S	231.55	62.22	169.33	58.54	173.01	60.23	171.32
P-5D	232.23	63.84	168.39	59.81	172.42	61.97	170.26
RIVER	215.77	39.58	176.19	42.36	173.41	49.68	166.09

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 3 (cont.)
Water Level Data for 1996 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Well	Surveyed Top of Casing Elevation*	Depth to Water (feet)	Water Level Elevation*
		8/20/2013	8/20/2013
OW-1	292.60	58.86	233.74
OW-2	251.92	52.31	199.61
OW-3S	269.37	46.44	222.93
OW-3D	269.37	41.49	227.88
PS-1	257.71	NM	---
PS-2	260.11	NM	---
PS-3	249.51	NM	---
PW-4	234.97	73.55	161.42
PW-5	224.11	55.20	168.91
P-1	206.90	32.32	174.58
P-2	232.92	57.14	175.78
P-3S	191.84	NM	---
P-3I	191.87	NM	---
P-3D	192.00	NM	---
P-4S	239.15	76.27	162.88
P-4I	239.15	76.38	162.77
P-4D	239.15	NM	---
P-5S	231.55	58.62	172.93
P-5D	232.23	69.41	162.82
RIVER	215.77	42.25	173.52

* Feet above mean sea level.

NM - Not Measured.

(1) Outer well casing broken off to ground level.

Table 4
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Sample	Trichloroethene (µg/l)																							
	1995												1996											
	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Combined Influent	340	419	417	533	403	379	343	399	345	393	224	376	530	554	625	902	623	418	495	810	629	484	556	910
Effluent	4	5	3	7	3	3	1	1	9	8	2	4	3	7	5	8	8	3	8	9	4	6	8	8
PS-1	569	988	1180	940	692	526	488	534	529	480	533	631	907	983	638	597	526	488	476	654	509	536	559	701
PS-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PW-4	1442	1699	1792	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PW-5	254	231	253	350	390	295	263	347	248	367	223	254	424	592	453	740	466	455	416	537	451	378	415	764
Blank	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	5	2	1	3	2	0	NR	2	0
Blank	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	0	NS	1	NS	NS	0	NS	NS	NS	NR	10	NR

[illegible][illegible][illegible]

Table 4 (continued)
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

[illegible]

Sample	Trichloroethene (µg/l)																							
	2005												2006											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Tower Influent	180	110	80	176	110	100	2,900 (1)	2,480 (1)	80	96	61	350	50	1030	45	53	189	43	210	200	316	110	48	48
Tower Effluent	9	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-1	19	20	15	8	10	11	17	19	15	25	13	18	12	14	8	13	15	11	8	10	8	7	12	7
PS-2	NS	NS	12	NS	NS	NS	NS	NS	NS	NS	NS	17	27	15	14	15	16	8	8	9	9	6	9	7
PW-4	17	<5	<5	<5	23	11	16	29	77	115	27	31	14	<5	12	41	25	48	<5	14	14	13	12	<5
PW-5	120	140	120	198	130	120	149	93	70	99	64	55	50	50	52	61	46	44	51	53	44	37	38	44
Blank	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5

[illegible][illegible][illegible]

Table 4 (continued)
Monthly Treatment System Influent and Effluent TCE Concentrations
for 1995 through 2013 Quarterly Sampling
Baldwin Hardware Corporation, Reading, Pennsylvania

Sample	Trichloroethene (µg/l)								
	Jan	Feb	March	Apr	2013 May	June	July	6-Sep	9-Sep
Tower Influent	36	<5	44	36	58	32	42	61	68
Tower Effluent	<5	<5	<5	<5	<5	<5	<5	<5	<5
PS-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
PS-2	<5	<5	<5	<5	<5	<5	<5	NS	<5
PW-4	30	9	<5	46	<5	<5	<5	NS	<5
PW-5	36	44	33	<5	62	35	44	NS	67
Blank	<5	<5	<5	<5	<5	<5	<5	<5	<5

µg/l - Micrograms per liter.

NR - Not Reported.

NS - Not Sampled.

< - Not detected at or above the indicated reporting limit.

* In August 2004, Baldwin Hardware determined that the variable frequency drive for the PS-2 well pump had malfunctioned and not operated correctly for an indeterminate time. Subsequent comparison of the PS-2 flow rate and concentration data to the Tower influent flow rate and concentration data suggests that the PS-2 well pump may not have run consistently since 2000. The results for well PS-2 between January 2000 and July 2004 are flagged (*) to note this.

** - This concentration is considered anomalously high based on the combined Influent concentration.

*** - This is a confirmation sample collected on 30 July 2007. Original sample collected on 17 July 2007.

(1) - This concentration is considered anomalously high based on the individual well concentrations. Additionally, the second vial had a concentration of 80 ug/L which is more consistent with the historic TCE concentrations and the concentrations of TCE in the individual well samples.

(2) - It appears that the analytical results for the May 2008 influent/effluent results have been switched, although ERM was unable to confirm this with the laboratory.

Appendix A
Laboratory Analytical Report



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028784

Date Collected: 07/10/13 08:30
Collected By: rxa

Sample Desc: Field Blank

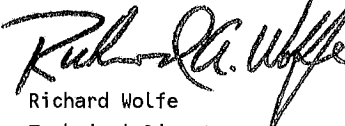
Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF

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Richard Wolfe
Technical Director

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028785

Date Collected: 07/10/13 08:35
Collected By: rxa

Sample Desc: Tower Influent

Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	7	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	42	ug/L	5	1	EPA 624	07/11	10:30	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028786

Date Collected: 07/10/13 08:40
Collected By: rxa

Sample Desc: Tower Effluent

Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF

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Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028787

Date Collected: 07/10/13 08:45
Collected By: rxa

Sample Desc: PS-2


Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028788

Date Collected: 07/10/13 08:55
Collected By: rxa

Sample Desc: PW-4

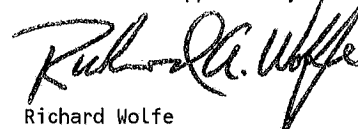
Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 07/17/13
Lab ID: 761-13-0028789

Date Collected: 07/10/13 09:00
Collected By: rxa

Sample Desc: PW-5

Date Received: 07/10/13 12:35

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloroform	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	07/11	10:30	GXF
cis-1,2-Dichloroethylene	9	ug/L	5	1	EPA 624	07/11	10:30	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	07/11	10:30	GXF
Trichloroethylene	44	ug/L	5	5	EPA 624	07/11	10:30	GXF

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Richard Wolfe
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M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/09/13
Lab ID: 761-13-0039879

Date Collected: 09/06/13 11:10
Collected By: RXW

Sample Desc: Field Blank

Date Received: 09/06/13 12:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Chloroform	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/06	14:14	TWH
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH
Trichloroethylene	<5	ug/L	5	1	EPA 624	09/06	14:14	TWH

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/09/13
Lab ID: 761-13-0039880

Date Collected: 09/06/13 11:26
Collected By: RXW

Sample Desc: Tower Influent

Date Received: 09/06/13 12:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chloroform	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	09/06	14:14	TWH
cis-1,2-Dichloroethylene	10.9	ug/l	5	1	EPA 624	09/06	14:14	TWH
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Trichloroethylene	61.4	ug/l	5	1	EPA 624	09/06	14:14	TWH

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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/09/13
Lab ID: 761-13-0039881

Date Collected: 09/06/13 11:18
Collected By: RXW

Sample Desc: Tower Effluent

Date Received: 09/06/13 12:00

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
<hr/>								
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chloroform	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	09/06	14:14	TWH
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH
Trichloroethylene	<5	ug/l	5	1	EPA 624	09/06	14:14	TWH

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Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031064

Date Collected: 08/20/13 09:35
Collected By: pgb

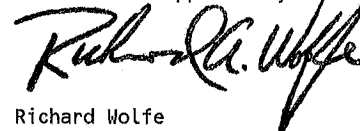
Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/27	15:07	JCL
ION CHROMAT								
Chloride	4	mg/L	2	2	EPA 300.0	08/21	04:47	JAE
Sulfate	19	mg/L	2	2	EPA 300.0	08/21	04:47	JAE
OTHER								
Total Organic Carbon	<.5	mg/L	.5	1	SM5310 C	08/26	15:44	ALD
FIELD								
PHYSICAL								
Conductivity-Field	464	umhos/cm	1	1	SM 2510B	08/20	09:35	PGB
pH-Field	7.4	su	1	1	SM4500H-B	08/20	09:35	PGB
Temperature - Field	15.0	C	.1	1	SM 2550B	08/20	09:35	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.049	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0020	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS
Copper, Dissolved	0.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Dissolved	0.0029	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.022	mg/L	.005	1	EPA 200.8	08/28	13:49	RLS
TOTAL								
Barium, Total	0.045	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0020	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS

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Attention: Robin Guyann
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031064

Date Collected: 08/20/13 09:35
Collected By: pgb

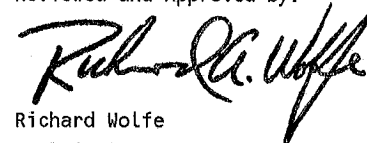
Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	0.04	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	<.001	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Total	0.0031	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	1	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.011	mg/L	.005	1	EPA 200.8	08/28	13:49	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Technical Director

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Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031064

Date Collected: 08/20/13 09:35
Collected By: pgb

Sample Desc: OW-1 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031065

Date Collected: 08/20/13 10:45
Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/27	15:07	JCL
ION CHROMAT								
Chloride	37	mg/L	5	5	EPA 300.0	08/21	05:17	JAE
Sulfate	73	mg/L	5	5	EPA 300.0	08/21	05:17	JAE
OTHER								
Total Organic Carbon	0.8	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	708	umhos/cm	1	1	SM 2510B	08/20	10:45	PGB
pH-Field	7.4	su	1	1	SM4500H-B	08/20	10:45	PGB
Temperature - Field	17.5	C	1	1	SM 2550B	08/20	10:45	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.048	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0021	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Dissolved	0.0048	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.205	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
TOTAL								
Barium, Total	0.048	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0023	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS

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Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031065

Date Collected: 08/20/13 10:45
Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	0.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	<.001	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Total	0.0050	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	27.1	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.212	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031065

Date Collected: 08/20/13 10:45
Collected By: pgb

Sample Desc: OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	3.6	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	4.4	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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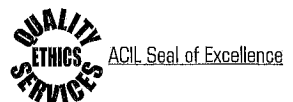
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200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031066

Date Collected: 08/20/13 08:30
Collected By: pgb

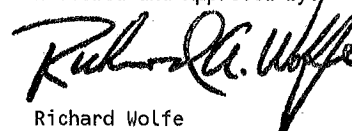
Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	90	mg/L	10	10	EPA 300.0	08/21	05:47	JAE
Sulfate	40	mg/L	10	10	EPA 300.0	08/21	05:47	JAE
OTHER								
Total Organic Carbon	0.6	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	875	umhos/cm	1	1	SM 2510B	08/20	08:30	PGB
pH-Field	6.5	su	1	1	SM4500H-B	08/20	08:30	PGB
Temperature - Field	15.7	C	.1	1	SM 2550B	08/20	08:30	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.154	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0032	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	0.005	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Dissolved	0.0651	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	<.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
TOTAL								
Barium, Total	0.186	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	1.95	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS

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Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031066

Date Collected: 08/20/13 08:30
Collected By: pgb

Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	0.034	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	9.47	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	0.231	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Total	0.166	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	37.3	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031066

Date Collected: 08/20/13 08:30
Collected By: pgb

Sample Desc: OW-3S Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF

COMMENTS

- 01 The sample vial was checked for residual chlorine after the sw846 8260 procedure. The sample tested positive for residual chlorine.

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Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031067

Date Collected: 08/20/13 09:10
Collected By: pgb

Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	7	mg/L	2	2	EPA 300.0	08/21	06:17	JAE
Sulfate	31	mg/L	2	2	EPA 300.0	08/21	06:17	JAE
OTHER								
Total Organic Carbon	0.6	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	501	umhos/cm	1	1	SM 2510B	08/20	09:10	PGB
pH-Field	7.4	su	1	1	SM4500H-B	08/20	09:10	PGB
Temperature - Field	14.6	C	.1	1	SM 2550B	08/20	09:10	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.120	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0015	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	0.12	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	0.005	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Dissolved	0.0034	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	<.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
TOTAL								
Barium, Total	0.113	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0037	mg/L	.0005	1	EPA 200.8	08/28	13:49	RLS

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Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031067

Date Collected: 08/20/13 09:10
Collected By: pgb


Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	0.13	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	0.005	mg/L	.001	1	EPA 200.8	08/28	13:49	RLS
Nickel, Total	0.0029	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	1.3	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	<.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	1.7	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	39.4	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031067

Date Collected: 08/20/13 09:10
Collected By: pgb

Sample Desc: OW-3D Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031068

Date Collected: 08/20/13 11:35
Collected By: pgb

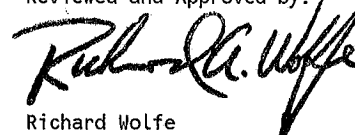
Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	34	mg/L	5	5	EPA 300.0	08/21	06:47	JAE
Sulfate	60	mg/L	5	5	EPA 300.0	08/21	06:47	JAE
OTHER								
Total Organic Carbon	0.8	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	722	umhos/cm	1	1	SM 2510B	08/20	11:35	PGB
pH-Field	7.1	su	1	1	SM4500H-B	08/20	11:35	PGB
Temperature - Field	17.2	C	.1	1	SM 2550B	08/20	11:35	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.054	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0058	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS
Copper, Dissolved	0.003	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Dissolved	0.0042	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.008	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
TOTAL								
Barium, Total	0.055	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0056	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS

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200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031068

Date Collected: 08/20/13 11:35
Collected By: pgb

Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	0.004	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	0.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	0.002	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Total	0.0054	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	10.9	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.013	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	1.6	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031068

Date Collected: 08/20/13 11:35
Collected By: pgb

Sample Desc: PS-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	0.6	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031069

Date Collected: 08/20/13 13:00
Collected By: pgb

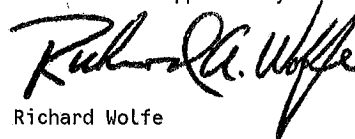
Sample Desc: PS-3 Baldwin Hardware Facility - no sample

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
OTHER								
No Sample	<1	None	1	1	NO SAMPLE	08/20	13:00	PGB

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Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031070

Date Collected: 08/20/13 12:15
Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	94	mg/L	5	5	EPA 300.0	08/21	07:17	JAE
Sulfate	66	mg/L	5	5	EPA 300.0	08/21	07:17	JAE
OTHER								
Total Organic Carbon	0.7	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	969	umhos/cm	1	1	SM 2510B	08/20	12:15	PGB
pH-Field	6.6	su	1	1	SM4500H-B	08/20	12:15	PGB
Temperature - Field	16.5	C	.1	1	SM 2550B	08/20	12:15	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.110	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0054	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS
Copper, Dissolved	0.002	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Dissolved	0.0054	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.009	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
TOTAL								
Barium, Total	0.108	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0053	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS

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Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031070

Date Collected: 08/20/13 12:15
Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	0.002	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Total	0.0051	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	43.5	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.008	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	2.2	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1-Dichloroethane	0.6	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/20	23:13	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/20	23:13	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF

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Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031070

Date Collected: 08/20/13 12:15
Collected By: pgb

Sample Desc: PW-4 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	1.3	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Tetrachloroethylene	0.6	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Trichloroethylene	1.2	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031071

Date Collected: 08/20/13 11:55
Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	66	mg/L	5	5	EPA 300.0	08/21	07:47	JAE
Sulfate	44	mg/L	5	5	EPA 300.0	08/21	07:47	JAE
OTHER								
Total Organic Carbon	<.5	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	822	umhos/cm	1	1	SM 2510B	08/20	11:55	PGB
pH-Field	7.6	su	1	1	SM4500H-B	08/20	11:55	PGB
Temperature - Field	16.4	C	.1	1	SM 2550B	08/20	11:55	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.120	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0027	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS
Copper, Dissolved	0.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Dissolved	0.0056	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.012	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
TOTAL								
Barium, Total	0.124	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0023	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS

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Richard Wolfe
Technical Director

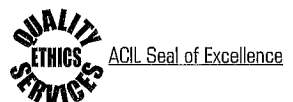
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Lab ID: 761-13-0031071

Date Collected: 08/20/13 11:55
Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	0.003	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Total	0.0054	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	30.3	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.013	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	1.2	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/20	23:13	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/20	23:13	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF

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Richard Wolfe
Technical Director

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Date of Report: 09/03/13
Lab ID: 761-13-0031071

Date Collected: 08/20/13 11:55
Collected By: pgb

Sample Desc: PW-5 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	7.4	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Tetrachloroethylene	1.8	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF
Trichloroethylene	45	ug/L	2.5	5	SW846 8260	08/21	09:07	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/20	23:13	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/20	23:13	GXF

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Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031072

Date Collected: 08/20/13 10:55
Collected By: pgb

Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	37	mg/L	5	5	EPA 300.0	08/21	08:18	JAE
Sulfate	72	mg/L	5	5	EPA 300.0	08/21	08:18	JAE
OTHER								
Total Organic Carbon	0.5	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	708	umhos/cm	1	1	SM 2510B	08/20	10:55	PGB
pH-Field	7.4	su	1	1	SM4500H-B	08/20	10:55	PGB
Temperature - Field	17.5	C	.1	1	SM 2550B	08/20	10:55	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	0.044	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	0.0023	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Dissolved	0.0051	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	0.214	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
TOTAL								
Barium, Total	0.047	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	0.0024	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS

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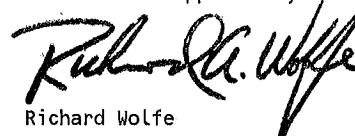
Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	0.03	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	0.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Total	0.0051	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	26.8	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	0.222	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Lab ID: 761-13-0031072

Date Collected: 08/20/13 10:55
Collected By: pgb

Sample Desc: Duplicate @ Well OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	3.7	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	4.4	ug/l	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/l	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/l	.5	1	SW846 8260	08/23	00:02	GXF

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Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031073

Date Collected: 08/20/13 07:30
Collected By: pgb

Sample Desc: Day 1 Trip Blank Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,1,2-Trichloroethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,1-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,1-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,2-Dichloroethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,2-Dichloropropane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,3-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
1,4-Dichlorobenzene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
2-Chloroethylvinyl Ether	<10	ug/l	10	1	SW846 8260	08/21	21:39	GXF
Benzene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Bromoform (Tribromomethane)	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Bromomethane (Methyl Bromide)	<1	ug/l	1	1	SW846 8260	08/21	21:39	GXF
Carbon Tetrachloride	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Chlorodibromomethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Chloroethane	<1	ug/l	1	1	SW846 8260	08/21	21:39	GXF
Chloroform	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Chloromethane (Methyl Chloride)	<1	ug/l	1	1	SW846 8260	08/21	21:39	GXF
cis-1,2-Dichloroethylene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
cis-1,3-Dichloropropylene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Dichlorobromomethane	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Dichlorodifluoromethane	<1	ug/l	1	1	SW846 8260	08/21	21:39	GXF
Ethylbenzene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Methylene Chloride	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Tetrachloroethylene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF
Toluene	<.5	ug/l	.5	1	SW846 8260	08/21	21:39	GXF

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031073

Date Collected: 08/20/13 07:30
Collected By: pgb

Sample Desc: Day 1 Trip Blank Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/21	21:39	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/21	21:39	GXF
Trichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/21	21:39	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/21	21:39	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/21	21:39	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/21	21:39	GXF

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Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031074

Date Collected: 08/20/13 11:10
Collected By: pgb

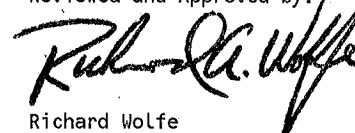
Sample Desc: Day 1 Field Blank @ OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
cis-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031074

Date Collected: 08/20/13 11:10
Collected By: pgb

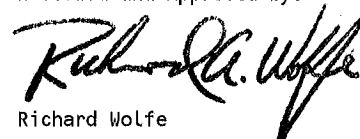
Sample Desc: Day 1 Field Blank @ OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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Attention: Robin Guynn
Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031075

Date Collected: 08/20/13 11:05
Collected By: pgb

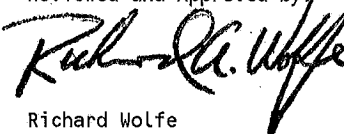
Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Total	<.004	mg/L	.004	1	10204001X	08/22	17:21	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	08/28	15:58	JCL
ION CHROMAT								
Chloride	<1	mg/L	1	1	EPA 300.0	08/21	08:48	JAE
Sulfate	<1	mg/L	1	1	EPA 300.0	08/21	08:48	JAE
OTHER								
Total Organic Carbon	0.5	mg/L	.5	1	SM5310 C	08/21	19:46	ALD
FIELD								
PHYSICAL								
Conductivity-Field	1	umhos/cm	1	1	SM 2510B	08/20	11:05	PGB
pH-Field	8.6	su	1	1	SM4500H-B	08/20	11:05	PGB
Temperature - Field	27.0	C	.1	1	SM 2550B	08/20	11:05	PGB
INORGANIC								
DISSOLVED								
Barium, Dissolved	<.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS
Copper, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Dissolved	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Dissolved	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Dissolved	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Zinc, Dissolved	<.005	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
TOTAL								
Barium, Total	<.005	mg/L	.005	1	EPA 200.8	08/23	18:37	RLS
Cadmium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Chromium, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/28	22:27	RLS

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Reported To: Environmental Resources Mgt. Inc.
200 Harry S. Truman Pkwy
Suite 400
Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031075

Date Collected: 08/20/13 11:05
Collected By: pgb

Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Copper, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Iron, Total	<.02	mg/L	.02	1	EPA 200.7	08/21	10:42	LNA
Lead, Total	<.001	mg/L	.001	1	EPA 200.8	08/23	18:37	RLS
Manganese, Total	<.001	mg/L	.001	1	EPA 200.8	08/28	22:27	RLS
Nickel, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Silver, Total	<.0005	mg/L	.0005	1	EPA 200.8	08/23	18:37	RLS
Sodium, Total	<.5	mg/L	.5	1	EPA 200.7	08/26	12:44	LNA
Zinc, Total	<.005	mg/L	.005	1	EPA 200.8	08/28	22:27	RLS
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2,2-Tetrachloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1,2-Trichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,1-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloroethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,2-Dichloropropane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,3-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
1,4-Dichlorobenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
2-Chloroethylvinyl Ether	<10	ug/L	10	1	SW846 8260	08/23	00:02	GXF
Benzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Bromoform (Tribromomethane)	<2	ug/L	2	1	SW846 8260	08/23	00:02	GXF
Bromomethane (Methyl Bromide)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Carbon Tetrachloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorobenzene (Monochlorobenzene)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chlorodibromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloroethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Chloroform	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Chloromethane (Methyl Chloride)	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF

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Annapolis MD 21401

Date of Report: 09/03/13
Lab ID: 761-13-0031075

Date Collected: 08/20/13 11:05
Collected By: pgb

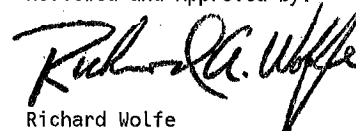
Sample Desc: Rinsate Water Blank @ OW-2 Baldwin Hardware Facility

Date Received: 08/20/13 13:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
cis-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
cis-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorobromomethane	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Dichlorodifluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Ethylbenzene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Methylene Chloride	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Tetrachloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Toluene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,2-Dichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
trans-1,3-Dichloropropylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichloroethylene	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF
Trichlorofluoromethane	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Vinyl Chloride	<1	ug/L	1	1	SW846 8260	08/23	00:02	GXF
Xylenes (Total)	<.5	ug/L	.5	1	SW846 8260	08/23	00:02	GXF

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M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040151

Date Collected: 09/09/13 13:40
Collected By: pgb

Sample Desc: Field Blank

Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/17	09:22	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	09/17	09:22	GXF

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email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:

Richard Wolfe
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Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040152

Date Collected: 09/09/13 13:55
Collected By: pgb

Sample Desc: Tower Influent

Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/18	09:35	GXF
cis-1,2-Dichloroethylene	11	ug/L	5	1	EPA 624	09/18	09:35	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Trichloroethylene	68	ug/L	5	5	EPA 624	09/18	09:35	GXF

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Richard Wolfe
Technical Director

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PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040153

Date Collected: 09/09/13 13:45
Collected By: pgb

Sample Desc: Tower Effluent

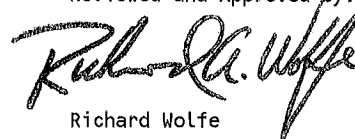
Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/17	22:28	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF

Distribution of Reports:

email: K. Hinckley - Stanley Black and Decker
email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:


Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040154

Date Collected: 09/09/13 13:50
Collected By: pgb

Sample Desc: PS-2

Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/17	22:28	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF

Distribution of Reports:

email: K. Hinckley - Stanley Black and Decker
email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040155

Date Collected: 09/09/13 14:10
Collected By: pgb

Sample Desc: PW-4

Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/17	22:28	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	09/17	22:28	GXF

Distribution of Reports:

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email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Dave Hancock
Reported To: Baldwin Hardware Corporation
841 E. Wyomissing Blvd.
Reading PA 19611

Date of Report: 09/24/13
Lab ID: 761-13-0040156

Date Collected: 09/09/13 14:05
Collected By: pgb

Sample Desc: PW-5

Date Received: 09/09/13 14:20

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chloroform	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	09/18	09:35	GXF
cis-1,2-Dichloroethylene	11	ug/L	5	1	EPA 624	09/18	09:35	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	09/18	09:35	GXF
Trichloroethylene	67	ug/L	5	5	EPA 624	09/18	09:35	GXF

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email: K. Hinckley - Stanley Black and Decker
email: K. Bitjeman - Loureiro Engineering Associates Inc

Reviewed and Approved by:

Richard Wolfe
Technical Director

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



Appendix B
Pennsylvania Department of Environmental
Resources Water Quality Reporting Forms



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: OW-1☒ Well ☐ Spring ☐ Stream ☐ Other☒ Upgradient ☐ DowngradientLocation: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 27.4"Longitude: 75° 56' 27.5"Depth to Water Level: 58.86 ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 3.54 ft.Elevation of Water Level: 233.74 ft./MSLSampling Depth: 60.94 ft.Volume of Water Column: 13.09 gal.Total Well Depth: 79.00 ft.Sample Method: ☐ Pumped ☒ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: 3Sample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 0935Sample Collector's Name: 15Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031064Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. OW-1Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	4.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	40	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.4	SM4500H-B
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	1.0	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	464	SM 2510B
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	19	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	<.5	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	15.0	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. OW-1Sample Date 8/20/2013**FORM 19****QUARTERLY AND ANNUAL WATER QUALITY ANALYSES****2-Q Organics (Enter all data in µg/l)**

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

[illegible]

I.D. No. PAD 002350833Monitoring Point No. OW-1Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-1Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	3.1	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	2.9	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833

Monitoring Point No.	OW-1
----------------------	------

Sample Date	8/20/2013
-------------	-----------

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: OW-2
☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient ☒ Downgradient
Location: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 22.4"Longitude: 75° 56' 26.1"Depth to Water Level: 52.31 ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 3.50 ft.Elevation of Water Level: 199.61 ft./MSLSampling Depth: 67.08 ft.Volume of Water Column: 31.00 gal.Total Well Depth: 100.00 ft.Sample Method: ☐ Pumped ☒ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: 3Sample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 1045Sample Collector's Name: 17.5Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031065Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	37.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.4	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	27.1	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	708	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	73	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.8	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	17.5	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	3.6	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	4.4	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	48	epa 200.8
Barium, Dissolved	48	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	2.3	epa 200.8
Chromium, Dissolved	2.1	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	212	epa 200.8
Zinc, Dissolved	205	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	4.8	EPA 200.8

† Please indicate detection limit if analyte is not detected.

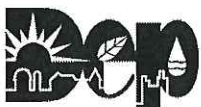
I.D. No. PAD 002350833Monitoring Point No. OW-2Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

<u>Constituent</u>	<u>CAS Number</u>



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: OW-3D
☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient ☐ Downgradient
Location: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 22.2"Longitude: 75° 56' 40.7"Depth to Water Level: 41.49 ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 3.50 ft.Elevation of Water Level: 227.88 ft./MSLSampling Depth: 72.95 ft.Volume of Water Column: 19.88 gal.Total Well Depth: 200.50 ft.Sample Method: ☐ Pumped ☒ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: 3Sample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 0910Sample Collector's Name: 14.6Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031067Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. OW-3DSample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	7.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	130	epa 200.7
Iron (µg/l), Dissolved**	120	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	5	epa 200.8
Manganese (µg/l), Dissolved**	5	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.4	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	1.3	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	501	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	31	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.6	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	14.6	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. OW-3DSample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	39.4	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	1.7	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-3DSample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	113	epa 200.8
Barium, Dissolved	120	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	3.7	epa 200.8
Chromium, Dissolved	1.5	epa 200.8
Copper, Total	<1	epa 200.8
Copper, Dissolved	<1	epa 200.8
Lead, Total	<1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	<5	epa 200.8
Zinc, Dissolved	<5	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-3DSample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-3DSample Date 8/20/2013

FORM 19

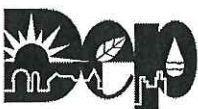
ANNUAL WATER QUALITY ANALYSES

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	2.9	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	3.4	EPA 200.8

† Please indicate detection limit if analyte is not detected.



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: OW-3S
☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient ☐ Downgradient
Location: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 21.9"Longitude: 75° 56' 70.8"Depth to Water Level: 46.44 ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 3.42 ft.Elevation of Water Level: 222.93 ft./MSLSampling Depth: 46.93 ft.Volume of Water Column: 5.32 gal.Total Well Depth: 89.00 ft.Sample Method: ☐ Pumped ☒ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: 3Sample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 0830Sample Collector's Name: 15.7Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031066Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. OW-3SSample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	90.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	9470	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	231	epa 200.8
Manganese (µg/l), Dissolved**	5	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	6.5	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	37.3	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	875	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	40	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.6	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	15.7	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. OW-3SSample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	<.5	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-3SSample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. OW-3SSample Date 8/20/2013**FORM 19****ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	166	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	65.1	EPA 200.8

† Please indicate detection limit if analyte is not detected.



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee: Baldwin Hardware Corporation
Site Name: Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP): PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: PS-2
☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient ☒ Downgradient
Location: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 25.4"Longitude: 75° 56' 28.7"Depth to Water Level: N/A ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 2.74 ft.Elevation of Water Level: N/A ft./MSLSampling Depth: N/A ft.Volume of Water Column: N/A gal.Total Well Depth: 380.00 ft.Sample Method: ☒ Pumped ☐ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: N/ASample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 1135Sample Collector's Name: 17.2Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031068Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. PS-2Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	34.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	2	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.1	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	10.9	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	722	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	60	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.8	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	17.2	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. PS-2Sample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	<.5	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	<.5	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	<.5	sw846 8260
Trichloroethene	0.6	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PS-2Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Arsenic, Total		
Arsenic, Dissolved		
Barium, Total	55	epa 200.8
Barium, Dissolved	54	epa 200.8
Cadmium, Total	<0.5	epa 200.8
Cadmium, Dissolved	<0.5	epa 200.8
Chromium, Total	5.6	epa 200.8
Chromium, Dissolved	5.8	epa 200.8
Copper, Total	4	epa 200.8
Copper, Dissolved	3	epa 200.8
Lead, Total	1	epa 200.8
Lead, Dissolved	<1	EPA 200.8
Mercury, Total		
Mercury, Dissolved		
Selenium, Total		
Selenium, Dissolved		
Silver, Total	<0.5	EPA 200.8
Silver, Dissolved	<0.5	epa 200.8
Zinc, Total	13	epa 200.8
Zinc, Dissolved	8	epa 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PS-2Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PS-2Sample Date 8/20/2013**FORM 19****ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	1.6	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5.4	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	4.2	EPA 200.8

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833

Monitoring Point No.	PS-2
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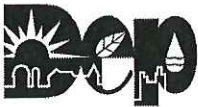
Sample Date	8/20/2013
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FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]



FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: PW-4
☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient ☒ Downgradient
Location: County BerksMunicipality: ReadingSampling Point: Latitude: 40° 19' 19"Longitude: 75° 56' 29.7"Depth to Water Level: 73.55 ft.Measured From: ☐ Land Surface ☒ TOCCasing Stickup: 0.00 ft.Elevation of Water Level: 161.42 ft./MSLSampling Depth: 73.81 ft.Volume of Water Column: N/A gal.Total Well Depth: 297.00 ft.Sample Method: ☒ Pumped ☐ Bailed ☒ GrabWell Purged ☒ Yes ☐ NoWell Volumes Purged: N/ASample Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date: (mm/dd/yy) 8/20/2013Sample Collection Time: 1215Sample Collector's Name: 16.5Sample Collector's Affiliation: MJ ReiderLaboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.Lab Certification Number 06-003Lab Sample Number: 0761-13-0031070Final Lab Analysis Completion Date: 9/3/13Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc

Comments: _____

I.D. No. PAD 002350833Monitoring Point No. PW-4Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	94.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	<1	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	6.6	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	43.5	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	969	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	66	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	0.7	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	16.5	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. PW-4Sample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	SW846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	0.6	SW846 8260
1, 1-Dichloroethene	<.5	SW846 8260
1, 2-Dichloroethane	<.5	SW846 8260
Cis 1, 2-Dichloroethene	1.3	SW846 8260
Trans-1,2-Dichloroethene	<.5	SW846 8260
Ethyl Benzene	<.5	SW846 8260
Methylene chloride	<.5	SW846 8260
Tetrachloroethene	0.6	SW846 8260
Toluene	<.5	SW846 8260
1, 1, 1-Trichloroethane	2.2	SW846 8260
Trichloroethene	1.2	SW846 8260
Vinyl chloride	<1	SW846 8260
Xylene	<.5	SW846 8260
2-Chloroethylvinyl Ether	<10	SW846 8260

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PW-4Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

2-A Organics (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	SW846 8260
Bromomethane (Methyl Bromide)	<1	SW846 8260
Carbon Tetrachloride	<.5	SW846 8260
Chlorobenzene	<.5	SW846 8260
Chloroethane (Ethyl Chloride)	<1	SW846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	SW846 8260
Methyl Chloride (Chloromethane)	<1	SW846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	SW846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	SW846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	SW846 8260
Dichlorodifluoromethane	<1	SW846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	SW846 8260
Cis-1,3-Dichloropropene	<.5	SW846 8260
Trans-1,3-Dichloropropene	<.5	SW846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	SW846 8260
1,1,2-Trichloroethane	<.5	SW846 8260
Trichlorofluoromethane (CFC-11)	<1	SW846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PW-4Sample Date 8/20/2013

FORM 19

ANNUAL WATER QUALITY ANALYSES

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	SW846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	SW846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5.1	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	5.4	EPA 200.8

† Please indicate detection limit if analyte is not detected.



Commonwealth of Pennsylvania
Department of Environmental Protection
Recycling Waste Management

Date Prepared/Revised

9/3/2013

DEP USE ONLY

Date Received

FORM 19
MUNICIPAL WASTE LANDFILLS
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 14R, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Section 273.284

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258

SECTION A. SITE IDENTIFIER

Applicant/permittee Baldwin Hardware Corporation
Site Name Baldwin Hardware Facility, Reading, PA
Facility ID (as issued by DEP) PAD 002350833

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S").**

Monitoring Point Number: PW-5 ☒ Well ☐ Spring ☐ Stream ☐ Other
☐ Upgradient ☒ Downgradient
Location: County Berks Municipality: Reading
Sampling Point: Latitude: 40° 19' 20" Longitude: 75° 56' 29"
Depth to Water Level: 55.20 ft. Measured From: ☐ Land Surface ☒ TOC
Casing Stickup: 0.00 ft. Elevation of Water Level: 168.91 ft./MSL
Sampling Depth: 55.52 ft. Volume of Water Column: N/A gal.
Total Well Depth: 197.00 ft. Sample Method: ☒ Pumped ☐ Bailed ☒ Grab
Well Purged ☒ Yes ☐ No Well Volumes Purged: N/A
Sample Filtered (must be 0.45 micron)? ☒ Yes ☐ No
Spring Flow Rate: _____ GPM
Sample Date: (mm/dd/yy) 8/20/2013 Sample Collection Time: 1155
Sample Collector's Name: 16.4
Sample Collector's Affiliation: MJ Reider
Laboratory Performing Analysis MJ Reider 107 Angelica St. Reading, PA 19611
Were any holding times exceeded? ☐ Yes ☒ No If yes, please explain in comments field.
Lab Certification Number 06-003
Lab Sample Number: 0761-13-0031071 Final Lab Analysis Completion Date: 9/3/13
Name/Affiliation of Person who Filled out Form James C. Best Jr. - MJ Reider Assoc., Inc
Comments: _____

I.D. No. PAD 002350833Monitoring Point No. PW-5Sample Date 8/20/2013

FORM 19
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

ANALYTES

1-Q Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen*		
Bicarbonate (as CaCO ₃)*		
Calcium, Total*		
Calcium, Dissolved**		
Chemical Oxygen Demand*		
Chloride*	66.00	EPA 300.0
Fluoride		
Iron (µg/l), Total	<20	epa 200.7
Iron (µg/l), Dissolved**	<20	epa 200.7
Magnesium, Total*		
Magnesium, Dissolved**		
Manganese (µg/l), Total	3	epa 200.8
Manganese (µg/l), Dissolved**	<1	epa 200.8
Nitrate-Nitrogen		
pH (standard units), Field*	7.6	sm4500h-b
pH (standard units), Laboratory*		
Potassium, Total*		
Potassium, Dissolved**		
Sodium, Total*	30.3	epa 200.7
Sodium, Dissolved**		
Specific Conductance (µmhos/cm), Field*	822	sm 2510b
Specific Conductance (µmhos/cm), Laboratory*		
Sulfate*	44	EPA 300.0
Total Alkalinity*		
Total Dissolved Solids		
Total Organic Carbon*	<.5	SM5310 C
Total Phenolics (µg/l)	<10	EPA 420.4
Turbidity (NTU)		
Cyanide	<.004	10204001X
Temperature Before Sampling, °C	16.4	SM 2550B

* Indicator Analyte - For comparison with detection zone analytes.

† Please indicate detection limit if analyte is not detected.

** Total and dissolved analysis required only in conjunction with additional annual metals sampling (see page 4).
 Remaining quarterly samples only require total metal analysis.

I.D. No. PAD 002350833Monitoring Point No. PW-5Sample Date 8/20/2013

FORM 19

QUARTERLY AND ANNUAL WATER QUALITY ANALYSES

2-Q Organics (Enter all data in µg/l)

ANALYTE	VALUE†	ANALYSIS METHOD NUMBER
Benzene	<.5	sw846 8260
1, 2-Dibromoethane		
1, 1-Dichloroethane	<.5	sw846 8260
1, 1-Dichloroethene	<.5	sw846 8260
1, 2-Dichloroethane	<.5	sw846 8260
Cis 1, 2-Dichloroethene	7.4	sw846 8260
Trans-1,2-Dichloroethene	<.5	sw846 8260
Ethyl Benzene	<.5	sw846 8260
Methylene chloride	<.5	sw846 8260
Tetrachloroethene	1.8	sw846 8260
Toluene	<.5	sw846 8260
1, 1, 1-Trichloroethane	1.2	sw846 8260
Trichloroethene	45	sw846 8260
Vinyl chloride	<1	sw846 8260
Xylene	<.5	sw846 8260
2-Chloroethylvinyl Ether	<10	sw846 8260

† Please indicate detection limit if analyte is not detected.

1-A Metals (Enter all data in ug/l) If initial background analyses or four consecutive annual analyses show essentially identical (within 5%) dissolved and total analyses, dissolved analyses may not be required, subject to written DEP approval.

[illegible]

I.D. No. PAD 002350833Monitoring Point No. PW-5Sample Date 8/20/2013**FORM 19****ANNUAL WATER QUALITY ANALYSES****2-A Organics (Enter all data in µg/l)**

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Bromoform (Tribromomethane)	<2	sw846 8260
Bromomethane (Methyl Bromide)	<1	sw846 8260
Carbon Tetrachloride	<.5	sw846 8260
Chlorobenzene	<.5	sw846 8260
Chloroethane (Ethyl Chloride)	<1	sw846 8260
Dibromochloromethane (Chlorodibromomethane)	<.5	sw846 8260
Methyl Chloride (Chloromethane)	<1	sw846 8260
3-Chloro-1-propene		
1,2-Dichlorobenzene (o-Dichlorobenzene)	<.5	sw846 8260
1,3-Dichlorobenzene (m-Dichlorobenzene)	<.5	sw846 8260
1,4-Dichlorobenzene (p-Dichlorobenzene)	<.5	sw846 8260
Dichlorodifluoromethane	<1	sw846 8260
1,2-Dichloropropane (Propylene Dichloride)	<.5	sw846 8260
Cis-1,3-Dichloropropene	<.5	sw846 8260
Trans-1,3-Dichloropropene	<.5	sw846 8260
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	<.5	sw846 8260
1,1,2-Trichloroethane	<.5	sw846 8260
Trichlorofluoromethane (CFC-11)	<1	sw846 8260
1,2,3-Trichloropropane		

† Please indicate detection limit if analyte is not detected.

I.D. No. PAD 002350833Monitoring Point No. PW-5Sample Date 8/20/2013**FORM 19****ANNUAL WATER QUALITY ANALYSES**

Subtitle D Detection Zone Add-On List: When the MCL of any analyte is exceeded in the detection zone Form 50 monitoring, the following analytes must be monitored annually in the ground water monitoring wells.

ORGANICS AND METALS (Enter all data in µg/l)

ANALYTE	VALUE	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromomethane)		
Bromodichloromethane (Dichlorobromomethane)	<.5	sw846 8260
Carbon Disulfide		
Chloroform (Trichloromethane)	<.5	sw846 8260
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene Bromide (Dibromomethane)		
Methyl Iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total		
Beryllium, Total		
Cobalt, Total		
Nickel, Total	5.4	EPA 200.8
Thallium, Total		
Vanadium, Total		
Nickel, Dissolved	5.6	EPA 200.8

† Please indicate detection limit if analyte is not detected.

4 Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but the concentration of each is not required.

[illegible]